

# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

NAME D19 – 0  
NSN 9150-00-179-5137

## GENERAL INFORMATION

MANUFACTURER'S NAME JOINT OIL ANALYSIS PROGRAM TECHNICAL SUPPORT CENTER  
TELEPHONE NUMBER (850) 452-5627  
**EMERGENCY TELEPHONE NUMBER 1-800-851-8061**  
ADDRESS JOAP-TSC  
85 MILLINGTON AVENUE  
PENSACOLA, FL 32508-5010  
SPECIFICATION MIL-L-6082, GRADE 1100  
CHEMICAL FAMILY HYDROCARBONS  
DATE PREPARED DECEMBER, 2001

## INGREDIENTS INFORMATION

COMPONENTS		PERCENTAGE
BASE OIL		100 %
TRACE ELEMENTS		
IRON	Fe	≤1 ppm
SILVER	Ag	≤1 ppm
ALUMINUM	Al	≤1 ppm
CHROMIUM	Cr	≤1 ppm
COPPER	Cu	≤1 ppm
MAGNESIUM	Mg	≤1 ppm
SODIUM	Na	≤1 ppm
NICKEL	Ni	≤1 ppm
LEAD	Pb	≤1 ppm
SILICON	Si	≤1 ppm
TIN	Sn	≤1 ppm
TITANIUM	Ti	≤1 ppm
ZINC	Zn	≤1 ppm
BORON	B	≤1 ppm
MOLYBDENUM	Mo	≤1 ppm
CADMIUM	Cd	≤1 ppm
BARIUM	Ba	≤1 ppm
VANADIUM	V	≤1 ppm
MANGANESE	Mn	≤1 ppm

## PERSONAL PROTECTION INFORMATION

VENTILATION Use with adequate ventilation to control exposure to below recommended levels.  
RESPIRATORY OSHA PEL and ACGIH TLV for oil mists are 5 mg/m<sup>3</sup>.  
Not generally required.  
EYE Safety glasses with side shields or splash goggles  
PROTECTION  
SKIN Gloves and protective garments to prevent skin contact.  
Avoid contact with eyes, skin or clothing.  
Avoid breathing vapors, mist, fumes or dust.

Material can cause gangrene if pressure injected under the skin.

These recommendations are based on normal uses and conditions. Expert assistance, such as an industrial hygienist, should be sought if unusual or special conditions exist.

#### **HANDLING AND STORAGE**

Store in closed containers.

Store in well-ventilated area.

Do not store near oxygen and/or strong oxidizing agents.

#### **REACTIVITY**

STABILITY

Stable

MATERIALS TO AVOID

Oxygen and strong oxidizing agents

HAZARDOUS POLYMERIZATION

Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides, various hydrocarbons and oxides and other compounds of the metals present

#### **HEALTH HAZARDS**

EXPOSURE LIMITS

OSHA PEL and ACGIH TLV for oil mists are 5 mg/m<sup>3</sup>

EFFECTS OF OVEREXPOSURE

Pressurized injection of material under the skin can lead to seriously inflamed tissue. If left untreated, the injury may become gangrenous. Prolonged and repeated exposure to oil mists poses a risk of pulmonary disease such as lung inflammation. Continuous skin contact with used motor oils has caused skin cancer in laboratory animals. 29CFR1910.1025 requires employee notification of lead present in the work place. All compounds containing heavy metals should be handled carefully.

#### **FIRST AID and EMERGENCY**

EYES

Flush eyes with water for fifteen (15) minutes

SKIN

Wash with soap and water

INHALATION

Remove from source

INGESTION

**DO NOT** induce vomiting, **SEEK MEDICAL ASSISTANCE**

In all cases, if irritation or adverse symptoms develop, **SEEK MEDICAL ASSISTANCE**

#### **PHYSICAL DATA**

APPEARANCE

AMBER TO DARK LIQUID

ODOR

MILD

BOILING POINT

> 600° F (> 316° C)

VAPOR PRESSURE

< 1 mm Hg @ 68 F (20° C)

VAPOR DENSITY (AIR = 1)

> 1

SOLUBILITY IN WATER

NEGLIGIBLE

SPECIFIC GRAVITY (WATER = 1)

0.86 - 0.89 @ 60° F (16° C)

PERCENT VOLATILE BY VOLUME

NEGLIGIBLE

EVAPORATION RATE

NEGLIGIBLE

#### **FIRE and EXPLOSION DATA**

FLASH POINT

> 385° F (195° C)

EXTINGUISHING MEDIA

DRY CHEMICAL, FOAM OR CARBON DIOXIDE

HAZARDS

CARBON OXIDES AND VARIOUS HYDROCARBONS ARE FORMED WHEN BURNED.

**TRANSPORTATION**

MATERIAL IS NOT REGULATED

**DISPOSAL AND REGULATORY INFORMATION**

MATERIAL IS SOLD AS A CHEMICAL ANALYTICAL STANDARD FOR LABORATORY USE.

DO NOT ALLOW MATERIAL TO ENTER SURFACE WATERS OR SANITARY SEWER SYSTEM.

THIS MATERIAL CONTAINS METALS LISTED IN 40 CFR 261.24 TOXICITY CHARACTERISTICS AND SHOULD BE TESTED AS DESCRIBED IN SECTION 261.24(A). IF THE MATERIAL FAILS THE TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP), THEN IT MUST BE MANAGED AND DISPOSED OF AS A HAZARDOUS WASTE IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

CERCLA/SUPERFUND - THIS MATERIAL IS NOT KNOWN TO CONTAIN HAZARDOUS SUBSTANCES IN SUFFICIENT QUANTITY TO MAKE IT SUBJECT TO CERCLA REGULATIONS